

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number  
**WO 2005/034578 A1**

(51) International Patent Classification<sup>7</sup>: **H04R 25/02**,  
25/00

[DK/DK]; c/o Oticon A/S, Strandvejen 58, DK-2900  
Hellerup (DK). JENSEN, Lars, Tuborg [DK/DK]; c/o  
Oticon A/S, Strandvejen 58, DK-2900 Hellerup (DK).

(21) International Application Number:  
PCT/DK2004/000613

(22) International Filing Date:  
16 September 2004 (16.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
PA 2003 01456 3 October 2003 (03.10.2003) DK

(71) Applicant (for all designated States except US): **OTICON**  
A/S [DK/DK]; Strandvejen 58, DK-2900 Hellerup (DK).

(72) Inventors; and

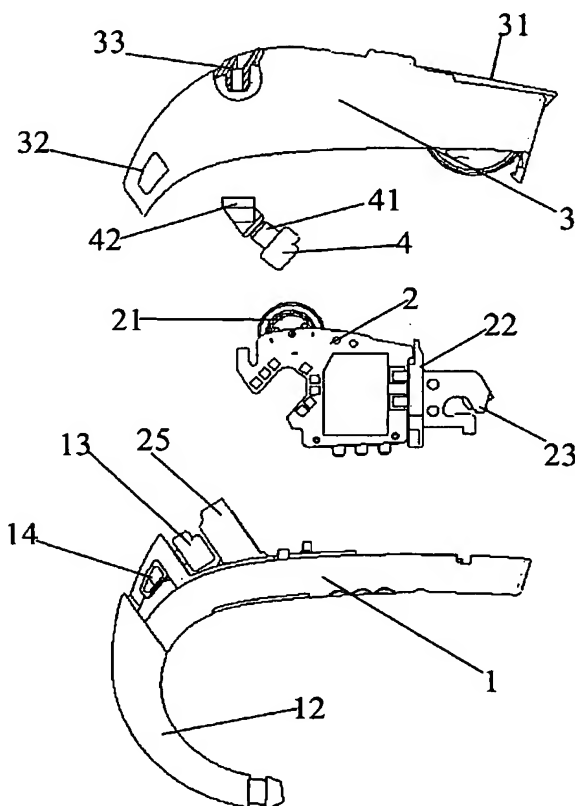
(75) Inventors/Applicants (for US only): **SEVERIN, Bent**

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: **HEARING AID WITH PRINTED CIRCUIT BOARD AND MICROPHONE SUSPENSION**



(57) Abstract: The invention concerns a hearing aid, which  
is intended for placement behind the ear lobe of a hearing aid  
user. According to the invention the hearing aid has a rigid cir-  
cuit board, a microphone and a suspension for holding the mi-  
crophone, a top shell part with at least one sound inlet opening  
for directing sound from the environment to the microphone  
and a bottom shell part which holds the printed circuit board,  
whereby the microphone suspension comprises fixing means  
for attachment thereof to the circuit board.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*